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Atty. Dkt. No. 02CR145/KE (047141-0292)

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of ~~retransmitting a data cell~~ communicating a data packet comprised of a plurality of data cells, the method using a transmit queue and a retransmit queue, each of the transmit queue and the retransmit queue having a head and a tail, the method comprising:

~~providing a transmit queue having a head and a tail;~~

~~providing a retransmit queue having a head and a tail;~~

transmitting a first data cell from the head of the transmit queue;

inserting the first data cell at the tail of the retransmit queue ~~in response to a HBH.~~

~~ACK mark~~ if the first data cell is for retransmission;

~~removing a second data cell at the head of the retransmit queue if receipt has been acknowledged for the second data cell;~~ and

retransmitting ~~[[a]]~~ the second data cell at the head of the retransmit queue if a time to retransmit elapses, wherein the second data cell is provided to the tail of the retransmit queue if retransmitted.

2. (Currently Amended) The method of claim 1, further comprising:
marking the first data cell as requiring a hop-by-hop receive acknowledgement.

3. (Original) The method of claim 1, further comprising:
determining if the second data cell has timed out.

4. (Original) The method of claim 1, further comprising:
determining if the second data cell has exceeded its predetermined number of retransmissions.

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5. (Currently Amended) The method of claim 1, further comprising:
reinserting removing the second data cell at the ~~tail~~ head of the retransmit queue
in response to a No-Ack-Info for the second data cell.
6. (Currently Amended) The method of claim 1, further comprising:
discarding removing the second data cell because at the head of the retransmit
queue if it has exceeded its predetermined number of retransmissions or it has timed out.
7. (Currently Amended) The method of claim 1, ~~further comprising:~~
reinserting the first data cell at the tail of the retransmit queue after the first data
cell has been transmitted from the head of the retransmit queue wherein the method is performed
in an ad hoc military radio network .
8. (Currently Amended) [[A]] In communications system having a transmission reliability subsystem, the reliability subsystem comprising:
a means for ~~providing~~ a transmit queue having a head and a tail;
a means for ~~providing~~ a retransmit queue having a head and a tail;
a means for transmitting a first data cell from the head of the transmit queue;
a means for inserting the first data cell at the tail of the retransmit queue in response to a HBH ACK mark signal; and
a means for removing a second data cell at the head of the retransmit queue if receipt is acknowledged and for retransmitting [[a]] the second data cell at the head of the retransmit queue if a time to retransmit occurs, wherein the second data cell is provided to the tail of the retransmit queue after retransmitting.
9. (Currently Amended) The ~~communications system~~ subsystem of claim 8, further comprising:
a means for marking the first data cell as requiring receive acknowledgement.

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10. (Currently Amended) The ~~communications system~~ subsystem of claim 8, further comprising:

a means for determining if the second data cell has timed out.

11. (Currently Amended) The ~~communications system~~ subsystem of claim 8, further comprising:

a means for determining if the second data cell has exceeded its predetermined number of retransmissions.

12. (Currently Amended) The ~~communications system~~ subsystem of claim 8, further comprising:

a means for reinserting the second data cell at the tail of the retransmit queue.

13. (Currently Amended) The ~~communications system~~ subsystem of claim 8, further comprising:

a means for discarding the second data cell because it has exceeded its predetermined number of retransmissions or it has timed out.

14. (Currently Amended) The communications system of claim 8, further comprising:

a means for reinserting the first data cell at the tail of the retransmit queue after the first data cell has been transmitted from the head of the retransmit queue wherein the system is part of an ad hoc radio network.

15. (Currently Amended) A communications system, comprising:

a plurality of transceiver nodes configured to utilize a time division multiple access structure to communicate between the transceiver nodes; and

the time division multiple access structure including a plurality of time slots, wherein the transceiver nodes are configured to communicate data cells during the time slots, the data cells being transmitted from a transmission queue and a retransmission queue,

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wherein cells transmitted from the transmission queue are selectively placed sequentially into the retransmission queue for later retransmission in response to the ~~HBH-ACK~~ mark need for a retransmission, wherein the retransmission queue includes a head and a tail, wherein a first data cell is removed from the head of the retransmission queue if receipt is acknowledged and the first data cell is retransmitted if a time to retransmit elapses, wherein the first data cell is provided to the tail of the retransmit queue if retransmitted.

16. (Currently Amended) The communications system of claim 15, wherein ~~the a~~ first data cell is copied before being transmitted from the transmission queue and is placed in the tail of the retransmission queue if the first data cell has been marked for receive acknowledgement.

17. (Currently Amended) The communications system of claim 15, wherein the first data cell at [[a]] the head of the retransmission queue is discarded if timed out.

18. (Currently Amended) The communications system of claim 15, wherein the first data cell at [[a]] the head of the retransmission queue ~~has matched its~~ is removed if the predetermined number of retransmissions has been received.

19. (Currently Amended) The communications system of claim 15, wherein the first cell at [[a]] the head of the retransmission queue is copied, retransmitted and then placed at [[a]] the tail of the retransmission queue.

20. (Currently Amended) The communications system of claim 15, wherein ~~each packet includes a~~ the plurality of cells form a packet.